

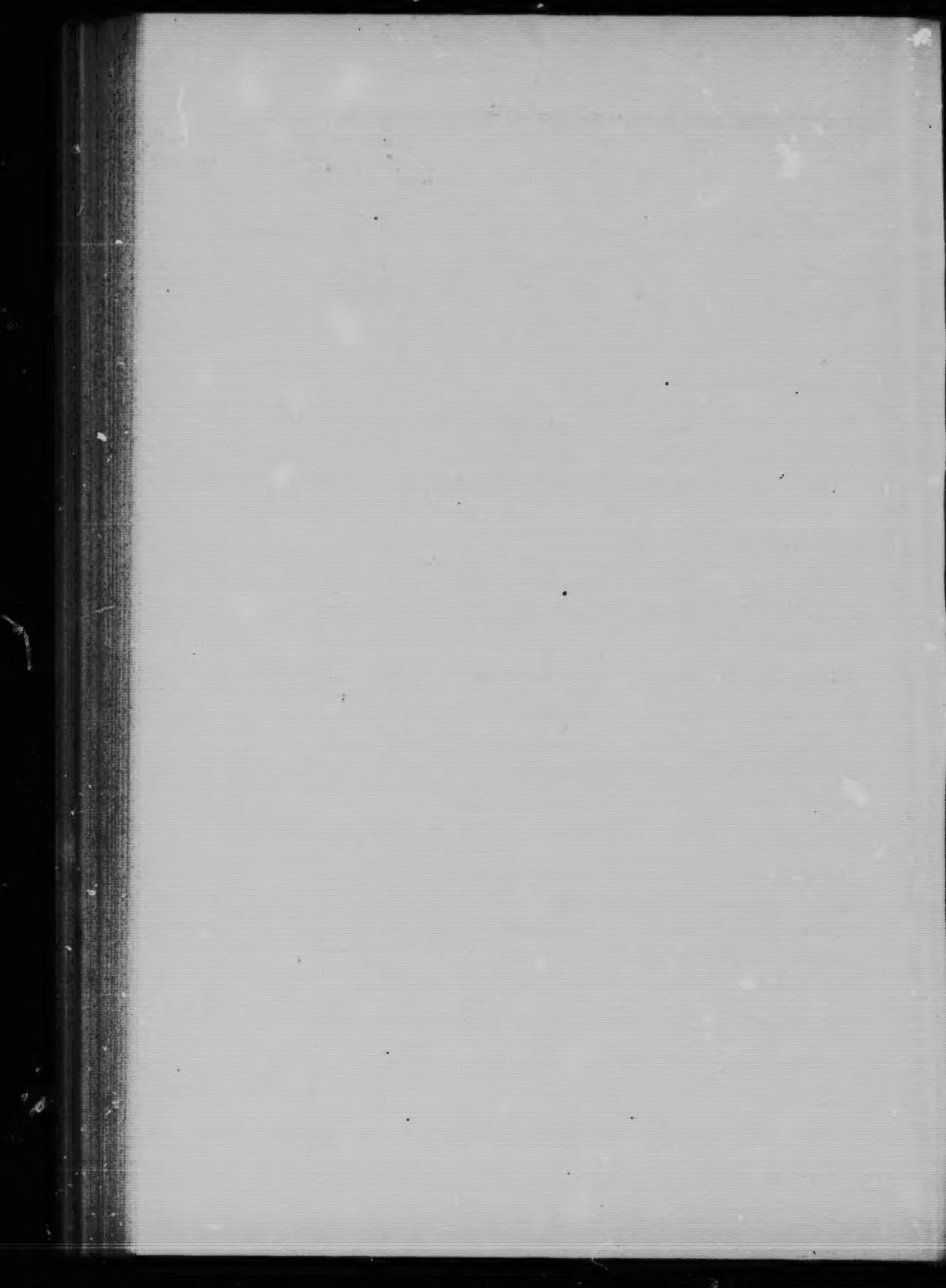
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Deputy Minister.

LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA.

BULLETIN No. 145

STRAINED HONEY

1871

Wm. B. Smith

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LABORATORY
OF THE
INLAND REVENUE DEPARTMENT
OTTAWA, CANADA

BULLETIN No. 145

STRAINED HONEY

OTTAWA, January 13, 1908.

W. J. GERALD, Esq.,
Deputy Minister of Inland Revenue.

SIR,—I beg to enclose you a Report on 253 samples of so-called *Strained Honey* collected throughout the Dominion in April and May, 1907.

The following synoptical Table gives particulars of collection, and a classification based upon the results of analysis :—

Inspectoral District.	GENUINE.		Doubtful.	Apparently adulterated.	Sold as Compound.	Total.
	Normal.	High Water Content.				
Nova Scotia.....	13	8	0	0	0	20
Prince Edward Island ..	5	5	0	3	0	13
New Brunswick.....	12	0	3	0	0	20
Quebec.....	17	0	1	2	0	20
St. Hyacinthe.....	14	5	0	0	1	20
Montreal.....	13	1	0	1	5	20
Ottawa.....	10	2	0	1	7	20
Kingston.....	20	0	0	0	0	20
Toronto.....	17	1	0	2	0	20
London.....	17	1	0	2	0	20
Manitoba.....	14	2	0	3	1	20
Calgary.....	14	5	0	1	0	20
British Columbia.....	18	1	0	1	0	20
	188	31	4	16	14	253

* The strip of paper, answering the purpose of a label, is so badly mutilated in this sample, as to make it possible that the word "Compound" in small letters, may have been originally on the package, as I find it on some very similar packages.

All other necessary information, of a technical kind, will be found in the accompanying Memorandum.

The results of analysis are presented in the form of two Tables. Table I gives information regarding the source and general character of the samples, as well as the results of a preliminary analysis. Table II gives more detailed analytical work, performed upon samples which appeared doubtful, or unsatisfactory, on preliminary testing.

A further collection of Honey has been ordered, in consequence of a resolution of the Middlesex Beekeepers' Association. The work of analysis is already in progress, and a report will be made at the earliest possible date.

I beg to recommend publication of this Report, as Bulletin No. 145.

I have the honour to be, Sir,
Your obedient servant,

A. MCGILL,
Chief Analyst.

MEMORANDUM.

Honey is, in its nature, of somewhat variable character; being influenced by the special plants from which it is gathered; by the presence of "honey-dew" (1) by accessibility to the bees of maple or other sweet sap; by the weather, and other (2). In order to define Honey, it becomes necessary to study the extent of this variability.

For Canada, no legal definition of Honey exists. The following definition was made legal for the United States on the 26 June, 1906:—"Honey is the nectar, and saccharine exudations of plants, gathered, modified and stored in the comb by honey bees (*Apis Mellifica* and *Apis Dorsata*); is laevorotatory, contains not more than twenty-five (25) per cent. of water, not more than twenty-five hundredths (0.25) per cent of ash, and not more than eight (8) per cent. of sucrose."

With regard to this definition it may be said that occasional samples of genuine honey have been found to give a right hand rotation. The number expressing such rotation is always very small; and the samples in question are of such rare occurrence as to be practically negligible. The fact, however, that they may occur, makes it impossible to charge adulteration against a producer having such samples in his possession. It need not, however, prevent dextrorotatory samples from being described as below standard; or even, as being "non-honey" under the Act.

The inspection of 183 samples in 1897, showed 47 to contain above 25 per cent. of water. (3) Of this number 7 were adulterated or doubtful on other accounts; leaving 40 (= 23 per cent. of those classed as apparently genuine) with above 25 per cent water. But as explained by the Chief Analyst, "the analysts did not follow a uniform process" in the estimation of water.

The inspection of 99 samples in 1903, showed 8 samples to contain above 25 per cent water, of which number 6 were adulterated or doubtful, on other grounds. This leaves 2 samples (= 2½ per cent of the number classed as apparently genuine) to contain above 25 per cent. water.

The inspection of 54 samples, in 1906, showed 5 to contain above 25 per cent. water. Of this number, 2 are otherwise adulterated; leaving 3 samples (= 7 per cent. of those classed as apparently genuine) to contain above 25 per cent. water.

The inspection of 253 samples, now reported, shows 49 samples with 30 per cent. or more of water. Of this number, eleven (11) are sold as "compounds," and are classed as adulterated or doubtful, on independent grounds. This leaves 31 samples (= 14 per cent. of the number classed as presumably genuine) to contain 25 per cent of water, or more than this. The highest amount of water found in any of these samples is 31.4 per cent. It is noteworthy that a sample of guaranteed honey, supplied by Mr. R. F. Holtermann of Brantford, Ont., in 1897 contained 27.1 per cent. of water. (See Bull. No. 47).

The ash of honey is due almost entirely to the accidental occurrence of dust on sticks to the nectar, or other saccharine fluid, gathered by the bees. It is usually a mere trace; but exceptional instances are on record, when it has reached 0.3 per cent.

Many samples are recorded in Bulletin No. 47, which give a higher ash than this; but as every test indicated their genuineness, the high ash can only be interpreted as due to carelessness in handling the article, with consequent access of dust. The same

(1) Honey-dew is a sweet exudation which appears on the leaves of some plants, and especially of conifers, when stung by an aphid.

(2) Nearly all genuine samples of honey approximate 20 per cent. of water; and the number of samples falling below 18 per cent. or above 22 per cent. of water, is small indeed. This constancy of moisture content is due to the fact that bees find it impossible to deal with the substance if too dry or too wet. The definition quoted above, is simply liberal so far as water content of honey is concerned.

stances employed to adulterate honey are, like honey itself, characterized by a very low ash content. Owing to the valuelessness of this determination for purposes of detecting adulteration, I have not considered it necessary to carry out the test on the present collection.

Very few articles of food have been more extensively adulterated than honey; and it is important to examine how far the above definition of (U.S.) legal honey, enables surrogate samples to be detected.

Bees naturally gather the raw material for honey production at the nearest point; and this has been taken advantage of by bee-keepers. Sugar, syrup and other foods, are very properly fed to bees, in order to tide over periods of scarcity; but the feeding of syrup to bees to enable them to fill their combs with honey for the market, is another matter. Even when bees are fed exclusively on cane sugar (sucrose), the honey which they store up, consists chiefly of invert sugar, the organization of the insect effecting the change. But notable amounts of the cane sugar so fed, escape inversion; and as much as 30 per cent of the whole has been found, as unchanged sucrose, in the resultant honey. When bees have access to the normal, raw-material for honey making, it is well established that the honey will contain not more than from traces, to 10 per cent of cane sugar (sucrose). In the event of coniferous trees (pines &c.) being largely accessible, the honey may contain slightly higher amounts of cane sugar; but even in such case, 15 or 16 per cent of sucrose is a maximum amount. The Swiss Agricultural Chemists have fixed the maximum at 16 per cent. "In northern climes, where the pine and other coniferous trees abound, it may be safer to fix a somewhat higher maximum for sucrose than 8 per cent as established by the United States standard already quoted.

I have, for purposes of this Bulletin, adopted 16 per cent sucrose.

Glucose (Corn syrup) is a frequent adulterant of *extracted* or *strained* honey, i.e. honey which has been separated from the comb. Such surrogate honey always shows a marked right-hand rotation; and, by this means, (and others) is readily detected.

Cane sugar syrup is less often employed, as a honey substitute, partly because of its higher cost, and partly because of its ready detection, if employed in profitable amounts. There can, however, be no doubt that cane sugar syrup is in use, as an adulterant to honey. One of the samples now reported (See No. 25812) contains an explicit statement of the fact, that it consists of "*Honey and Sugar Syrup*." This sample gives a reading $+17.8^{\circ}$. The addition of cane syrup as already remarked, to the finished product, is not difficult of detection. This becomes quite otherwise when it is fed to the bees and subjected to the influence of the organism of the bee itself. There is a strong presumption against the purity of any honey sample which contains 10 per cent or more of cane sugar; but owing to circumstances already described, I consider it advisable, for the present, to give the benefit of any doubt, to the producer, and to permit samples, up to 16 per cent of cane sugar, to pass as "presumably genuine," in the absence of other evidence against them.

When cane sugar in solution is inverted (as by an acid) the resultant "*invert sugar*" is practically identical with honey, so far as the sugar content of the latter is concerned. Particulars as to the use of invert sugar as a honey substitute, or adulterant, will be found in the introduction to Bull. No. 90.

TABLE II.—SPECIAL EXAMINATION OF CERTAIN HONEY SAMPLES.

No.	CLERGET.			Cane Sugar.	FENLING WORE REDUCING SUGAR.			Cane Sugar.	Opinion of the Chief Analyst.
	Direct.	Invert.	Diffec.		Before Immersion.	After Immersion.	Diffec.		
47	- 13.2	- 13.6	1.40	1.04	66.44	70.19	1.75	1.66	
57	- 13.0	- 18.9	5.9	4.40	73.88	77.30	3.41	3.38	
34391	+ 2.3	- 19.36	21.66	16.20	59.70	76.22	16.52	15.69	Doubtful.
25812	+ 17.4	- 22.86	40.26	30.06	49.97	83.90	33.93	32.31	Sold as mixture.
25827	+ 15.0	- 24.2	39.2	29.25	46.08	79.52	33.44	31.77	Adulterated.
25836	+ 14.0	- 23.38	36.38	27.11	47.63	79.13	31.50	29.98	"
25838	+ 10.2	- 23.1	42.30	31.56	44.13	77.56	33.43	31.77	"
25845	- 15.2	- 22.0	66.80	5.07	71.20	74.66	3.46	3.23	Adulterated.
26186	+ 3.2	+ 17.82	14.62	15.70	60.70	83.41	22.71	17.45	"
26204	+ 22.5	- 20.35	42.85	32.00	47.10	82.05	34.95	32.00	Doubtful.
26241	+ 21.4	+ 11.00	10.40	7.70	63.41	70.19	6.78	7.40	
27322	- 11.5	- 17.6	6.10	4.55	64.34	70.19	5.85	5.08	
27326	- 11.8	- 17.6	5.80	4.32	65.43	73.3	7.40	7.12	
27331	- 10.0	- 14.0	4.00	2.98	87.00	70.86	2.92	2.77	
27335	- 2.9	- 17.6	14.70	10.96	61.25	73.86	12.61	11.98	
27337	- 15.0	- 18.7	3.70	2.70	66.88	70.19	3.31	3.14	
27340	- 3.2	- 8.8	5.60	4.18	62.60	64.75	2.15	2.04	
28721	- 18.0	- 22.0	4.00	2.98	69.02	73.10	4.08	2.87	
28726	- 2.7	- 20.9	18.20	17.61	61.05	77.88	16.83	15.50	Adulterated.
28737	- 14.8	- 20.9	6.10	4.55	75.05	78.16	3.11	2.96	
28738	- 10.6	- 15.8	5.20	3.88	71.16	76.22	5.06	4.80	
28740	- 17.0	- 22.0	5.00	3.73	68.73	71.25	2.52	2.40	
29612	+ 13.0	+ 3.06	9.92	7.40	66.50	74.27	7.77	7.38	Doubtful.
29514	+ 4.4	- 2.75	7.15	5.33	68.54	71.94	3.40	3.23	Presumably genuine.
30352	+ 9.3	- 17.05	26.35	19.66	55.90	79.33	23.43	22.35	Adulterated.
30360	+ 18.8	- 21.12	39.92	29.79	47.83	79.91	32.08	30.47	"
31102	- 14.1	- 16.9	2.80	1.86	65.81	67.66	1.85	1.75	
31103	- 5.1	- 15.4	10.30	7.68	70.48	77.19	6.71	6.37	
31104	- 2.5	- 17.2	14.70	10.97	61.25	72.91	11.66	11.07	
31106	- 12.1	- 16.5	4.40	3.28	68.44	72.91	4.47	4.24	
31108	- 7.7	- 16.0	8.90	6.64	70.77	77.03	6.26	5.95	
31116	+ 48.6	+ 45.43	3.17	2.36	62.90	66.50	3.60	3.42	Adulterated.
31117	+ 41.9	+ 37.18	4.72	3.52	61.92	65.33	3.41	3.23	"
31118	+ 78.0	+ 71.1	19.04	14.20	45.88	61.63	15.75	14.98	"
31687	+ 46.5	+ 41.1	12.40	9.25	60.76	68.83	8.07	7.66	"
32086	- 18.2	- 15.1	4.30	3.21	67.96	73.06	5.10	5.45	
32064	+ 36.5	+ 31.1	10.60	7.90	53.76	61.83	8.07	7.66	Adulterated.
32203	+ 114.0	+ 92.4	21.00	16.12	38.40	54.63	16.14	15.33	Sold as Compound.
32207	+ 96.8	+ 94.6	2.00	1.49	52.20	53.47	1.27	1.20	Adulterated.
32208	+ 95.0	+ 90.75	4.25	3.11	54.54	58.13	3.59	3.41	Sold as Compound.
32214	- 15.0	- 18.7	3.70	2.76	71.65	73.30	1.65	1.57	
33206	+ 13.5	- 17.38	30.88	23.04	54.34	78.56	24.22	23.00	Adulterated.
33209	+ 20.0	- 18.7	38.70	28.88	48.61	78.94	30.33	28.81	"
33220	- 13.0	- 19.5	6.50	4.85	70.41	79.72	9.31	8.14	

TABLE I—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample	No. of Sample,	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907						
DISTRICT OF NOVA SCOTIA—						
April 18	Honey.....	27321	Larder, Hubley & Co., Halifax.	3 bot..	30	Chas. Piers, Halifax.....
"	"	27322	Brown Bros. & Co., Halifax...	" ..	45	Nat. Drug and Chem. Co., Halifax, N.S.
"	"	27323	F. J. Clark, Halifax	" ..	60	Leonard Hill, Port Williams, N.S..
"	"	27324	J. A. Leaman & Co., Halifax..	1 jar...	25	" "
April 19	"	27325	H. A. Taylor, Halifax	18 oz...	35	Fawcett Honey Co., Mem- ramcook, N.B.
"	"	27326	E. S. Blackie, Halifax	" ...	35	Nat. Drug and Chem. Co., Halifax.
"	"	27327	G. A. Burdige, Halifax.....	16 oz....	25	Fawcett Honey Co., Mem- ramcook, N.B.
"	"	27328	W. E. Crowe & Co., Halifax...	2 bot..	40	" "
"	"	27329	C. E. Choat & Co., Halifax....	3 " ..	60	Leonard Hill, Port Williams, N.S.
April 23	"	27330	Leonard Hill, Port Williams, N.S.	16 oz....	25	Vendor.
" 24	"	27331	Murphy & DeMont, Windsor, N.S.	1 pt....	50	John Porter, Lochartville, N.S.
"	"	27332	H. Wilson, Windsor, N.S.....	1 lb....	25	Nat. Drug and Chem. Co., Halifax.
May 3	"	27335	P. B. Price & Co., Parrsboro, N.S.	½ pt....	20	T. B. Baker, St. John, N.B.
"	"	27336	W. D. McKenzie, Parrsboro, N.S.	3 bot..	45	Nat. Drug & Chem. Co., Halifax, N.S.
"	"	27337	Leo Gillespie, Parrsboro....	" ..	45	" "
May 7	"	27338	E. M. Walker, Dartmouth, N.S.	2 " ..	50	Fawcett Honey Co., Mem- ramcook, N.B.
"	"	27339	Geo. Orman, Dartmouth, N.S.	" " ..	30	F. W. Fearman, Hamilton, Ont.
"	"	27340	Nat. Drug & Chemical Co., Halifax	3 " ..	30	Unknown.
"	"	27364	Jas. Hogan, Halifax.	2 " ..	40	Leonard Hill, Port Williams, N.S.
"	"	27365	W. A. Adams, Halifax.	1 jug..	40	B. C. Greeman, Toronto, Ont.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspectors' Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct Reading of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

R. J. WAUGH, INSPECTOR.

Labeled Pure Honey.....	-14°30	22°30	Yellow, clear.....	Genuine.
Labeled Pure White Clover Honey.	-11°8	25°90	Brown, clear, tastes of buckwheat.	" water content high.
.....	-17°00	20°60	Yellow, slightly crystallized.	"
Warranted Pure.....	-13°10	20°50	Dark yellow, clear.....	"
.....	-13°70	31°25	Light brown, crystallized throughout.	"
.....	-11°90	27°10	Dark yellow, clear.....	" water content high.
.....	-15°80	22°40	Dark yellow, crystallized throughout.	"
Labeled Pure Honey..	-12°70	22°10	Dark yellow, clear.....	"
Warranted Pure Honey...	-11°70	21°40	Yellow, slightly crystallized.	"
Pure Buckwheat and Clover Honey.	-14°70	20°30	Dark yellow, slightly crystallized.	"
.....	-10°00	26°50	Brown, clear, slight taste of buckwheat.	" water content high.
.....	-11°60	26°00	Brown, clear.....	" "
Labeled Pure White Clover.	-3°50	26°70	Brown, clear.....	" "
" "	-3°00	24°40	Yellow, crystallized.....	"
" "	-15°5	28°10	Brown, clear.....	" water content high.
Warranted Pure Honey...	-14°00	22°50	Yellow, crystallized throughout.	"
White Clover Honey.....	-15°00	26°70	Yellow, clear.....	" water content high.
.....	-2°40	31°40	Yellow, clear.....	" "
Labeled Pure Honey.....	-8°20	22°90	Yellow, clear.....	"
.....	-17°20	22°80	Pale yellow, partly crystallized.	"

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						
DISTRICT OF PRINCE EDWARD						
April 19	Honey..	31101	Johnson & Johnson, Charlottetown.	3 bot...	90	Lyman Sons & Co., Montreal, P.Q.
" 19	"	31102	Geo. E. Hughes, Charlottetown.	3 " "	45	Nat. Drug & Chem. Co., Ltd., Canada.
" 19	"	31103	C. D. Rankin, Charlottetown.	3 " "	75	John Newson, Charlottetown.
" 19	"	31104	E. Keir, Kensington.	3 " "	75	Dr. Keir, Malpeque, P.E.I.
" 20	"	31105	Jas. McDonald, Summerside.	3 " "	45	E. H. Stewart, Niagara Falls.
" 20	"	31106	A. W. P. Gourlie, Summerside.	3 " "	45	Can. Drug Co., Ltd., St. John, N.B.
" 20	"	31107	P. N. Enman, Summerside.	3 " "	75	Fawcett Honey Co., Ltd., Memramcook, N.B.
" 20	"	31108	John Knight, Georgetown.	3 " "	75	Simpson Bros., Halifax.
" 20	"	31109	A. McLean, Georgetown.	3 " "	54	Upton.
" 20	"	31110	W. A. Pool, Lower Montague.	3 " "	45	Hattie & Mylius, Halifax.
" 25	"	31116	Joseph McDonald, Cardigan.	3 " "	60	Not known.
May 1	"	32117	Mathew and McLean, Souris.	3 " "	64	Dearborn & Co., St. John, N.B.
" 1	"	31118	Sterns & Son, Souris.	3 " "	54	L. Chaput Fils & Co., Montreal.
DISTRICT OF NEW BRUNSWICK—						
April 12	Honey 'Bees'	24355	Magee & Geldart, 30 Johnston St., St. John, N.B.	3 jars.	45	Magee & Geldart, Crounchville, St. John Co., N.B.
" 12	"	24356	Geo. S. Wetmore, Agent, Stall No. 1, City Market, St. John, N.B.	3 " "	60	Miles E. Vanwart, Kings Co., N.B.
" 15	"	24357	Walter H. Bell, 92 King St., St. John, N.B.	3 " "	75	Leonard A. Hill, Port Williams, N.S.
" 15	"	24358	M. E. Grass, 16 Germani St., St. John, N.B.	3 " "	60	Fawcett Honey Co., Ltd., Memramcook, N.B.
" 24	"	24386	S. L. Stockton, Petticoediac, N.B.	3 " "	54	E. L. Colpitts & Co., Petticoediac, N.B.
" 24	"	24387	E. L. Colpitts, Petticoediac, N.B.	3 " "	60	Vendor.
" 26	"	24389	Miller Bros., Newcastle, N. Co., N.B.	3 " "	60	Fawcett Honey Co., Ltd., Memramcook, N.B.
" 26	"	24390	Geo. Stables, Public Square, Newcastle, N.B.	3 " "	75	Jas. McLaggan, Covered Bridge, N.B.
" 29	"	24391	A. Normand Les Brisay, George St., Bathurst, N.B.	3 " "	45	The Canadian Drug Co., Ltd., St. John, N.B.
" 30	"	24384	Geo. St. Ogne, Water St., Campbellton, N.B.	3 " "	75	Leonard A. Hill, Port Williams, N.S.
" 25	"	24388	Geo. A. Robertson, Main St., Moncton, N.B.	3 " "	60	Fawcett Honey Co., Ltd., Memramcook, N.B.
" 23	"	24385	W. E. McKay & Co., Main St., Sussex, N.B.	3 tumb- lers.	54	Farmers at Cornhill, N.B.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULT OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct reading of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

ISLAND—T. MOORE, INSPECTOR.

Clarified especially for Lyman Sons & Co.	- 14.60	22.00	Pale yellow, Crystallized throughout.	Genuine.
.....	- 10.80	29.70	Brown, clear.....	" Water content high.
.....	- 5.60	25.80	Pale yellow, clear.....	" "
.....	- 2.60	27.60	Yellow, clear....	" "
.....	- 17.10	24.60	White, clear	"
.....	- 13.80	26.00	Yellow, partly crystallized.	" "
.....	- 14.5	21.20	Yellow, partly crystallized.	"
Clover honey	- 11.50	26.20	Yellow, almost all crystallized.	" "
.....	- 10.80	20.80	Yellow, almost all crystallized.	"
.....	- 6.00	24.20	Brown, almost all crystallized.	"
Pure clover honey,.....	+ 48.0	24.80	Pale yellow, crystallized throughout.	Contains glucose. Adulterated.
.....	+ 40.9	22.20	.....	" "
Clarified honey	+ 77.3	20.60	.....	" "

J. C. FERGUSON, INSPECTOR.

Label—Extracted Honey..	- 13.30	23.00	Yellow, clear	Genuine.
No label on bottle	- 10.60	20.80	Dark brown, clear.....	"
Warranted Pure Honey...	- 12.50	18.00	Brown, clear.....	"
Pure Honey	- 12.70	20.60	Dark yellow, clear	"
"	- 16.80	19.80	Dark brown, muddy....	"
Labeled Pure Honey ..	- 14.30	19.60	Partly crystallized, yellow.	"
Pure Honey	- 7.40	19.60	Slightly crystallized, yellow.	"
Pure 'Bee's Honey'	- 7.20	24.40	Slightly crystallized, brown.	"
Pure White Clover Honey (Label).	+ 3.70	27.00	Light brown, clear.....	Doubtful; water content high. Probably contains cane sugar.
Warranted Pure Honey (Label).	- 11.50	19.80	Crystallized throughout, yellow.	Genuine.
Pure Honey	- 9.20	20.00	Yellow, clear..	"
Buckwheat Honey	- 16.00	20.40	Dark brown, clear.....	"

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF NEW BRUNSWICK—

May	9	29511	Johnston & Johnston, King St., St. Stephen, N.B.	3 bottles	69	Geo. F. Beach, Honeydale, N.B.
"	9	29512	Geo. F. Beach, Meadows, N.B.	3 "	60	Vendors.....
"	11	29513	W. R. Logan, Queen St., Fredericton, N.B.	3 jars..	66	Horace Pugh, Marysville, N.B.
"	11	29514	Hatt, Morrison Co., Ltd., Fredericton, N.B.	3 "	75	Not known
"	11	29515	The '2' Bakers, Ltd., Queen St., Fredericton, N.B.	3 "	60	James McLaggan, Covered Bridge, N.B.
"	13	29516	J. W. Dalling, Woodstock, N.B.	3 tumblers.	45	Ernest Bell, Hartland, N.B.
"	13	29517	H. G. Noble, Main St., Woodstock, N.B.	3 "	54	J. A. Carpenter, Bloomfield, N.B.
"	14	29518	Garden Bros., Main St., Woodstock, N.B.	3 bottles	30	Sterling Peabody, Carleton, N.B.

DISTRICT OF QUEBEC.—

April	3	Honey	26180	Jacques Verret, Charlebourg..	1 lb...	30	Vendor
"	3	"	26181	V. Leguré, Charlebourg...	1½ "	30	Exavier Jeroux, Charlebourg
"	3	"	26182	Pierre Verret, St. Ambroise, P.Q.	1 "	25	Jacques Verret, Charlebourg
"	3	"	26183	H. Ross & Son, Indian Larrett.	1 "	25	" "
"	3	"	26184	Jules Verrett	1 "	25	" "
"	3	"	26185	A. Rochette, St. Ambroise...	3 bots..	45	Nazaire Turcotte, Quebec...
"	3	"	26186	J. Martel, St. Ambroise.....	2 glasses	30	F. X. Gauvreux... ..
"	3	"	26187	François Reneaud	1 lb...	25	Mad. Godin
"	4	"	26188	Jos. Mercier, Ste. Anne Beaupré.	1 "	20	Jos. Mercier, Ste. Anne Beaupré.
"	4	"	26189	Jos. Mercier, Ste. Anne Beaupré.	1 "	25	" "
"	5	"	26190	J. A. Chabot, 271 St. Joseph..	1 "	20	" "
"	8	"	26200	Elzear Gagnon, 128 Dorchester.	1 "	30	Dr. Ed. Morin.
"	8	"	26202	J. D. Marier, 136 Dorchester..	1 "	30	Unknown.. ..
"	8	"	26203	" "	1 "	39	"
"	8	"	26204	" "	1 "	30	"
"	19	"	26233	C. P. Lynsay, St. Marie Beauce	3 glasses	75	Vendor
"	19	"	26241	Arminas Dupuis, St. Marie Beauce.	1 lb...	30	"
"	22	"	26246	F. X. Paqu 54 Côte du Palais.	3 glasses	45	Pierre Drolet, Encienne Lorrette.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct reading of Saccharimeter.	Water loss on drying at 70 C.	Physical Characteristics.	

J. C. FERGUSON, INSPECTEUR.—*Con.*

.....	- 14.80	24.00	Partly crystallized, light brown.	"
Label—Pure Clover Honey.	+ 15.00	19.80	Brown, clear.....	Doubtful.
No label on jar.....	- 1.00	20.00	" "	Genuine.
Thought to be Buckwheat Honey.	+ 5.00	22.40	" "	Presumably genuine.
Label—Pure Bee's Honey..	- 8.80	22.00	" "	Genuine.
No label.....	- 8.70	20.60	Slightly crystallized, yellow.	"
"	- 4.00	21.40	Partly crystallized, yellow.	"
"	- 9.50	20.20	Brown, clear.....	"

E. BELAND, INSPECTOR.

.....	- 2.5	20.40	Pale yellow, clear	Genuine.
.....	- 3.0	20.00	Pale yellow, slightly crystallized.	"
.....	- 5.2	21.60	Pale yellow, slightly crystallized.	"
.....	- 5.0	20.20	Pale yellow, clear.....	"
.....	- 3.0	20.80	Pale yellow, partly crystallized.	"
.....	- 3.5	20.40	Pale yellow, crystallized throughout.	"
.....	+ 3.0	18.80	Pale yellow, clear.....	Adulterated with cane sugar.
.....	- 12.0	23.40	Brown, slightly crystallized.	Genuine.
.....	- 10.8	23.00	Brown, clear.....	"
.....	- 15.7	22.20	Brown, partly crystallized.	"
.....	- 11.0	22.80	Brown, partly crystallized.	"
.....	- 2.1	21.80	Pale yellow, slightly crystallized.	"
.....	- 15.3	23.20	Brown, clear.....	"
.....	- 14.0	22.20	Brown, partly crystallized.	"
.....	- 23.4	24.80	Yellow, clear.	Adulterated with cane sugar.
.....	- 2.5	21.20	Yellow, partly crystallized.	Genuine.
.....	+ 18.8	22.40	Brown, muddy.....	Doubtful.
.....	- 9.0	23.20	Pale yellow, crystallized throughout.	Genuine.

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF QUEBEC.—

April 22	Honey.....	26247	Jos. Savard, 35 St. Jean....	3 "	60	Dr. Gauvreau, Charlebourg
" 5	"	26199	Jos. Farlardeau, 268 Roi St....	1 lb...	20	General Hospital.....

DISTRICT OF ST. HYACINTHE.—

April 17	Honey.....	41	P. J. Girard, Richmond.....	1 qt...	60	W. E. Lefebvre, St. Antoine, Abbe.
" 17	"	42	E. J. Pearson, Richmond.....	2 jars..	60	H. G. Silver, Danville.....
" 19	"	43	P. E. Beaudoin, Thetford.....	3 glasses	54	W. Bru 1 & Cie, Quebec..
" 19	"	44	Clovis Biron, Thetford.....	2 lb...	26	Himself.....
" 19	"	45	Kings Mines Store.....	3 jars..	60	Lyman Sons & Co. Montreal
" 23	"	46	Samuel Des Landes, St. Liboire	24 oz..	15	Himself.....
" 23	"	47	Ant. Chicome, Acton Vale	1 jar..	60	"
" 25	"	48	Jos. St. Pierre, Acton Vale ..	1 "	60	R. F. Laroque, Notre Dame du Bon Conseil.
" 24	"	49	A. C. Gilmour, Waterloo ...	2 "	30	A. A. Lapierre, Montreal...
May 1	"	50	A. McLaughlin, Cowansville...	3 "	45	E. J. Bury, Brome, Que ..
" 3	"	51	May & Houlahan, Sherbrooke..	3 "	75	C. T. Ross, Sherbrooke.....
" 3	"	52	G. E. Robitaille, Sherbrooke..	3 glasses	45	Not Known.....
" 3	"	53	Biron & Blouin, East Sherbrooke.	3 jars..	45	Jos. Lamoureux & Cie, Montreal.
" 3	"	54	A. L. Dupuis, Casticook.....	21 ozs..	20	A. O. Carriere, St. Francois du Lac.
" 7	"	55	C. H. Digman, Eastman ...	3 jars..	60	A. Bowes & Co., Montreal..
" 8	"	56	G. A. Truax, Farnham.....	25 ozs..	25	Mr. Morin, St. Paul Abbotsford.
" 8	"	57	P. Larochelle, Farnham.....	2 lb. ...	25	A. L. Racine, Emileville....
" 10	"	58	S. N. Fonteneau, Marieville... 2 "	"	24	Mr. Lebrum, St. Dumace...
" 11	"	59	Ed. Viens, St. Thomas d'Aqui- net.	1 jar...	50	Himself.....
" 13	"	60	Jos. Leduc, St. Hyacinthe ...	2 lb. ...	25	Oscar Peltier, St. Hyacinthe le Confesseur.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULTS OF ANALYSIS.		Opinion of the Chief Analyst.
	Direct readings of Saccharimeter.	Water loss on drying at 70° C. Physical Characteristics.	

E. BELAND, INSPECTOR.—*Con.*

.....	-12.7	17.80	White, crystallized throughout.	"
.....	-6.2	21.00	Pale yellow, crystallized throughout.	"

J. C. ROULEAU, INSPECTOR.

No Label ...	-12.0	22.00	Brown. Muddy.....	Genuine.
"	-9.0	23.40	Yellow. Crystallized throughout.	"
Pure Virgin Honey..	-6.2	30.40	Pale yellow. Crystallized throughout.	"
.....	-12.3	25.00	Pale yellow. Crystallized throughout.	" Water content high.
Fine New Honey.....	-12.4	23.30	White. Crystallized throughout.	"
.....	-10.0	19.80	Brown. Crystallized throughout.	"
.....	-15.0	28.40	Brown. Partly crystallized.	" Water content high.
Pure Honey.....	-23.5	26.00	Brown. Partly crystallized.	" " " "
White Clover Honey Guaranteed Pure.	-13.7	23.00	Pale yellow. Partly crystallized.	"
Pure Honey	-10.0	21.20	Yellow. Crystallized throughout.	"
.....	-13.9	23.40	Yellow. Clear.....	"
.....	-15.1	24.00	Brown. Partly crystallized.	"
Marked Compound.....	+02.5	27.30	Brown. Partly crystallized.	Sold as compound. Water content high.
Pure Honey.....	-10.0	22.00	Brown. Crystallized throughout.	Genuine.
Put up by Vendor.....	-15.0	23.20	Brown. Crystallized throughout.	"
.....	-16.7	23.00	.....	"
.....	-16.0	23.00	Pale yellow. Crystallized throughout.	" Water content high.
.....	-8.3	25.00	.....	" " " "
.....	-8.9	24.80	.....	"
.....	-2.0	21.20	Yellow. Crystallized throughout.	"

TABLE I—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						
DISTRICT OF MONTREAL—						
April 3	Honey.....	31681	Howe & McIntyre, 91 Youville, Montreal.	3 jars ..	40	Vendor
" 17	"	31682	Leduc et Frere.....	3 pots ..	30	H. Sauve, St. Stanislas
" 22	"	31685	Nap. Morin & Co., Bonsecours Market.	2 lb	20	.....
" 22	"	31686	A. Laurandean, 85 St. Paul St., Montreal.	3 pots ..	30	J. Lamoureux, Montreal ..
" 22	"	31687	Jos. Choquette, 486 Lagauchetière St., Montreal.	2½ lb ...	30	.....
" 22	"	31688	H. Lagace, 252 Amherst St., Montreal.	2½ lb ...	30	Gunn & Langlois, Montreal..
" 22	"	31689	"	2½ lb ...	35	.....
" 23	"	31690	John Hunter & Son, Huntingdon.	1 jar....	45	Not known.....
" 23	"	31691	Jas. Brown, Huntingdon.....	1 "	45	Neil O'Hare, O'Neills Corners
" 25	"	31692	Aubin & Co., St. Lawrence Market, Montreal.	3 "	25	Not known.....
" 26	"	31693	G. W. Brunet, St. Antoine Market, Montreal.	2 "	20	"
" 26	"	31694	W. J. Falle, St. Antoine Market, Montreal.	2 "	30	J. McIntosh, Vankleek Hill.
" 26	"	31695	"	2 "	30	Not known.
May 1	"	31696	E. J. Moineau, 2 Craig St. West, Montreal.	3 "	55	"
" 2	"	31697	M. Ethier, Bonsecours Market, Montreal.	1 tin....	60	A. Denault (Farmer).....
" 2	"	31698	L. Beaudoin, 21 Vitre St. W., Montreal.	3 jars...	30	N. Belanger, Montreal.....
" 2	"	31699	T. H. Mallette, 20 Lagauchetière St. W., Montreal.	1 bot....	30	Not known.
" 2	"	31700	J. A. Desaulniers, 1135 St. Lawrence St., Montreal.	3 jars...	35	Fortier & Monnette, Montreal.
April 20	"	31683	A. A. Lapierre, 773 Notre Dame St. East, Montreal.	3 pots ..	25	Vendor
" 20	"	31684	J. A. Perreault, 40 Plessais St., Montreal.	3 "	25	Put up by Vendor.....
DISTRICT OF OTTAWA—A. E. SANDERSON						
April 15	Honey.....	32376	Bryson, Graham & Co., Sparks St., Ottawa.	3 bottles	60	Not known.....
" 25	"	32201	Philorum Dedine, Embrum, Ont.	3 cans ..	75	S. J. Major, Ottawa.....
" 26	"	32202	J. B. Lafrance & Co., Cryalor, Ont.	3 jars ...	1 20	Robt. McConnell, Cannanore, Montreal.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct Readings of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

J. J. COSTIGAN, INSPECTOR.

Labelled "Clover." "This delicious table delicacy is prepared with the choicest clover honey, refined, &c."	+47.2	24.80	Yellow. Clear.....	"Compound" stencilled on bottle.
.....	-18.0	22.00	Brown, partly crystallized. Tastes of buck-wheat.	Genuine.
Sold as pure	-10.0	21.00	Brown. Thick.....	"
Marked Compound	+96.5	26.00	"	Marked "Compound." Water content high.
.....	+40.1	25.20	Yellow. Clear.....	Adulterated with glucose syrup. Water content high.
.....	-13.0	21.80	Pale yellow. Crystallized throughout.	Genuine.
.....	-14.0	20.80	Brown. Partly crystallized.	"
.....	-13.0	22.20	Yellow. Crystallized almost throughout.	"
.....	-12.5	20.20	Brown. Crystallized throughout.	"
.....	-18.0	22.20	Yellow. Partly crystallized.	"
.....	-18.4	20.80	Brown. Thick.....	"
.....	-16.6	23.20	Light brown. Partly crystallized.	"
.....	-9.8	22.40	Yellow. Crystallized throughout.	"
.....	-15.0	23.60	White. Crystallized almost throughout.	"
Canadian Honey.....	-14.5	23.40	Yellow. Crystallized almost throughout.	"
Compound on label in small type.	+108.0	25.40	Brown. Thick.....	Marked "Compound." Water content high.
.....	-4.5	19.20	Yellow. Clear.....	Genuine.
.....	-20.0	25.40	Brown. Partly crystallized.	" Water content high.
Labeled Compound. "Red Colt Brand."	+5.3	27.80	Brown. Slightly crystallized.	Marked "Compound." Water content high.
Labeled Compound. "Miel Canadian."	+98.7	25.80	Brown. Rather thick...	"

INSPECTOR. E. BELISLE, GENERAL INSPECTOR.

No label on bottle	-9.8	19.40	Light brown. Clear....	Genuine.
Sold as pure.....	-14.0	23.60	Dark brown. Crystallized.	"
"	-11.2	20.80	Light yellow. Crystallized throughout.	"

TABLE 1.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF OTTAWA—J. E. SANDERSON.

April 26	Honey.....	32203	O. Piquette, Cambridge Road, Ont.	3 "	45	J. A. Perreault, Montreal...
" 27	"	32204	D. Robillard, Hawkesbury, Ont.	3 "	45	Unknown
" 29	"	32205	C. P. Wright, Aylmer, P.Q.	3 "	60	S. J. Major, Ottawa, Ont...
" 29	"	32206	F. Souliere, Aylmer, P.Q.	3 "	30	Jos. Lamoureux & Cie, Montreal.
" 29	"	32207	N. Mathé, Aylmer, P.Q.	3 "	30	S. J. Major, Ottawa...
May 7	"	32208	Therion & Frères, Hull, P.Q.	3 "	30	Jos. Lamoureux & Cie, Montreal.
" 8	"	32209	A. Villeneuve, Gatineau Point, P.Q.	3 "	30	Jos. Lamoureux & Cie, Montreal.
" 8	"	32210	A. J. Smith, Gatineau Point	3 "	60	S. S. Major, Ottawa.....
" 29	"	32211	H. A. Layng, Smith's Falls	2½ lbs.	30	Jno. Findlay, Smith's Falls.
" 29	"	32212	W. Hyndman, Smith's Falls	3 jars.	45	Upton's.....
June 29	"	32213	Foster Bennett & Co., Ltd., River Desert, P.Q.	3 lbs.	45	Rev. Father Oblate, Maniwaki.
" 29	"	32214	Anastase Roy, Maniwaki, P.Q.	3 jars.	50	S. J. Major, Ltd., Ottawa...
July 2	"	32215	Jules Faure, Gracefield, P.Q.	3 "	54	"
" 3	"	32216	A. Labelle, Hull, P.Q.	3 glasses	30	Jos. Lamoureux, Montreal..
" 3	"	32217	O. Lemieux, Hull, P.Q.	3 "	30	"
" 3	"	32218	P. Daoust & Cie, Hull, P.Q.	3 "	30	G. Leduc, Thuroso, P.Q.....
" 4	"	32219	F. X. Groulx, King Edward Ave., Ottawa.	3 "	30	Jos. Lamoureux & Cie, Montreal.

DISTRICT OF KINGSTON—

April 2	Honey	31079	J. Purdy, Karl St., Kingston	1½ pts.	45	.....
"	"	31079	C. S. Litton, Alfred St., Kingston.	"	"	.....
"	"	31085	W. A. Smith, Brook St., Kingston.	3 lbs.	39	Parkhill, Kingston.....
"	"	31086	J. Cullen, Princess St., Kingston.	"	"	"
"	"	31087	C. Saunders, Princess St., Kingston.	1½ lbs.	36	.....
"	"	31089	Anderson Bros., Princess St., Kingston.	1½ pts.	45	Bartels, Morven, Ont.....
" 3	"	31094	A. J. McCordan, Front St., Belleville.	"	30	.....

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULT OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct reading of Saccharimeter.	Water loss on drying at 70°C	Physical Characteristic.	

INSPECTOR. E. BELISLE, GENERAL INSPECTOR.—*Con.*

Sold as pure.....	+114.1	28.00	Brown. Muddy.....	Word "Compound" in small type on label.
"	- 14.0	18.80	Light yellow. Crystallized throughout.	Genuine.
"	- 13.2	19.40	Brown. Partly crystallized.	"
Marked compound in very small characters.	+ 81.7	26.00	Dark brown. Clear....	Marked "Compound." Water content high.
No label, thought to be from Major.	+ 97.8	26.20	"	Adulterated. No visible marking on remnant of a strip of paper surrounding the cover. Water content high.
Marked compound in very small characters.	+ 94.2	26.60	"	Marked "Compound." Water content high.
Marked compound in very small characters.	+ 90.5	26.20	"	"
Labelled pure honey.....	- 1.0	10.00	Yellow. Crystallized throughout.	Genuine.
Sold as honey from bulk...	- 8.0	23.00	Dark yellow. Slightly crystallized.	"
Labelled pure clarified honey.	- 15.3	16.60	Dark yellow. Crystallized throughout.	"
Sold as pure honey.....	- 5.0	21.00	Yellow. Crystallized throughout.	"
Brown honey	- 17.0	26.40	Dark brown. Thick....	" Water content high.
"	- 14.0	26.60	Dark brown. Clear....	"
Marked compound on label in small characters.	+ 32.0	26.60	Light brown. Thick....	Marked "Compound." Water content high.
Sold as compound.	+ 96.2	26.00	Brown. Muddy.....	Sold as compound. Water content high.
Sold as pure honey from buckwheat.	- 19.4	24.00	Dark brown. Partly crystallized.	Genuine.
Sold as compound.....	+ 97.5	26.00	Dark brown. Thick....	Sold as compound. Water content high.

JAMES HOGAN, INSPECTOR.

.....	-11.80	20.00	Yellow, crystallized throughout.	Genuine.
.....	- 7.00	23.40	Yellow, crystallized throughout.	"
.....	-12.00	23.00	Yellow, crystallized throughout.	"
.....	-13.00	23.00	Yellow, crystallized, throughout.	"
.....	- 8.90	22.40	Yellow, all crystallized...	"
.....	-11.90	23.00	Brown, partly crystallized, tastes of buckwheat.	"
.....	-16.30	23.20	Yellow, crystallized throughout.	"

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cont.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Jars.	Oz.	
1907						

DISTRICT OF KINGSTON.—

April	3	Honey...	33408 G. Pearson, Front St., Belleville	"	"	
"	4	"	33407 W. M. Robson, Kent St., Lindsay.	"	20	
"	"	"	33409 Adams Bros., Kent St., Lindsay.	3 pta.	75	
"	"	"	33413 R. L. Campbell, Kent St., Lindsay.	"	50	
"	"	"	33415 White & Gillespie, George St., Peterboro.	1½ pta.	40	
"	"	"	33417 Mason & Co., George St., Peterboro.	"	30	
"	"	"	33423 R. A. Dutton, George St., Peterboro.	"	45	Upton
"	5	"	33426 H. Burniam, Charlotte St., Peterboro.	"	30	
"	"	"	33430 J. Heal, Charlotte St., Peterboro.	"	"	
"	"	"	33432 A. J. Wams, Charlotte St., Peterboro.	"	40	
"	"	"	33434 J. Sutherland, George St., Peterboro.	"	60	White & Co., Toronto.
"	"	"	33435 J. H. Bell, Hunter St., Peterboro.	"	40	Upton
"	"	"	33438 W. A. Hamilton, Peterboro.	1½ lbs.	75	W. Anderson, Peterboro

DISTRICT OF TORONTO.—

May	8	Honey	33301 W. Eddy, Toronto	5 jars.	45	J. J. Fee, Toronto
"	8	"	33302 Spencer Smith, Toronto	3 "	30	Rutherford, Marshal & Co., Toronto.
"	8	"	33303 Allen Martindale, Toronto	3 "	30	John Callicot, Toronto
"	9	"	33304 Bruce & Sanderson, Toronto	2 pta.	60	White & Co., Toronto
"	9	"	33305 Oliver Taylor, Toronto	3 jars.	30	Rutherford, Marshal & Co., Toronto.
"	10	"	33306 W. Massen, Toronto	3 "	30	T. W. Humphrey, Toronto
"	14	"	33307 W. Scott, Toronto Jct.	3 "	30	White & Co., Toronto
"	14	"	33308 M. J. Tobino, Toronto Jct.	3 "	30	Sibbald, Claud, Ont
"	14	"	33309 E. Grainger & Co., Toronto	3 "	45	E. Grainger & Co., Toronto.
"	14	"	33310 P. J. Crown, Toronto	2 "	30	Warren Bros., Toronto
"	17	"	33311 C. K. Hewitt, East Toronto	1 pt.	30	Rutherford, Marshal & Co., Toronto.
"	20	"	33312 W. J. Rykman, Hamilton	1 "	35	Merchant at Onida.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct reading of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

JAMES HOGAN, INSPECTOR.—*Con.*

.....	-15.30	24.00	Brown, crystallized throughout.	Genuine.
.....	-12.00	22.20	Yellow, crystallized throughout.	"
.....	-12.20	22.00	Brown, crystallized throughout.	"
.....	-16.00	21.40	Yellow, crystallized throughout.	"
.....	-14.30	22.00	Brown, slightly crystallized.	"
.....	- 8.70	22.80	Yellow, crystallized throughout.	"
.....	-12.20	19.60	Brown, clear.....	"
.....	-12.20	21.80	Brown, very slightly crystallized.	"
.....	-12.00	22.80	Yellow, crystallized throughout.	"
.....	-16.00	22.20	Brown, crystallized throughout, buckwheat taste.	"
.....	- 5.00	20.00	Yellow, crystallized throughout.	"
.....	-12.70	22.00	Brown, partly crystallized.	"
.....	-11.80	20.40	Yellow, crystallized throughout.	"

H. J. DAGER, INSPECTOR.

Labeled pure.....	-15.3	24.70	Dark yellow. Crystallized throughout.	Genuine.
"	-16.0	23.40	" " " "	"
"	-17.6	24.00	Light yellow. Slightly crystallized.	"
No label. Guaranteed pure.	-16.8	21.80	Yellow. Crystallized throughout.	"
"	-12.0	22.20	Light yellow. Crystallized throughout.	"
"	+10.8	25.40	Yellow. Clear.....	Adulterated with cane sugar. Water content high.
"	-12.2	22.60	Yellow. Crystallized throughout.	Genuine
" Pure honey.	+17.8	23.40	Yellow. Clear.....	Adulterated with cane sugar.
Labeled pure. Guaranteed pure.	-16.2	22.20	Yellow. Slightly crystallized.	Genuine.
No label. Bottled by Vendor as pure.	-16.0	24.00	Dark yellow. Clear.	"
Guaranteed pure.	-11.8	22.00	Yellow. Crystallized almost throughout.	"
Buckwheat Honey.....	-10.0	23.00	Dark yellow. Crystallized throughout.	"

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						
DISTRICT OF TORONTO.—						
May 20	Honey.....	33213	Battrein & Co., Hamilton	2 jars..	50	White & Co., Hamilton.....
20	"	33214	Bain & Adams, Hamilton.....	3 " ..	54	Vendor
" 20	"	33215	W. J. O'Brien, Hamilton.....	1 tin..	25	F. W. Fearman, Hamilton..
" 21	"	33216	D. Lavrock, Hamilton	2 jars..	40	A farmer near Hamilton....
" 21	"	33217	Jas. Osborn & Son, Hamilton..	2 " ..	40	F. W. Freeman, Hamilton..
" 21	"	33218	A. S. Cain, Dundas.	3 " ..	60	Obtained from a farmer....
" 21	"	33219	H. F. Powell, Dundas.....	1 lb ..	12	McPherson, Glasco & Co., Hamilton.
" 21	"	33220	T. R. Martin, Hamilton.....	2 jars..	30	Lucas, Bristol & Steel, Ham- ilton.
DISTRICT OF LONDON.—						
April 16	Honey.....	30301	P. J. Dean, Goderich	1½ lb..	18	George Harris & Co., Dun- gannon.
" 19	"	30309	Barnsdale Trading Co., Strat- ford.	3 Cups.	36	Warren Bros. & Co., Toronto
" 23	"	30317	Ryan & Russell, Richmond St., London.	3 " ..	45	"
" 23	"	30318	Hugh Malcomson, Chatham....	3 " ..	45	W. A. Cryslar, Chatham....
" 25	"	30324	G. B. Lodge, Windsor.....	3 " ..	30	Wall & Guffey, Windsor....
" 26	"	30328	A. McKingly, St. Thomas....	3 " ..	54	R. H. Smith, St. Thomas....
May 1	"	30333	Alma Moose, Wingham.. ..	3 " ..	30	Masuret & Co., London.....
" 1	"	30336	W. A. Dulmage, Harrison.. ..	1 Pt..	25	S. A. Todd, Harrison.
" 2	"	30339	John Goos, Walkerton.....	3 Cups.	30	J. A. McIntyre.....
" 2	"	30340	H. H. Engle & Co., Hanover..	3 " ..	30	Not known.....
" 3	"	30343	Haleday & Stenson, Chesley...	3 " ..	20	"
" 4	"	30347	White Packing Co., Stratford..	3 " ..	45	"
" 8	"	30349	Jackson & Son, Guelph... ..	3 lb..	30	"
" 8	"	30352	Scroggie Browner, Guelph....	3 Cups.	30	John Nowlan & Son, New Town.
" 9	"	30353	Michel & Co., King St., Toron- to.	3 " ..	45	Wm. Couse, Streetsville....
" 10	"	30356	D. Bell, Church St., Toronto.	3 " ..	30	Rutherford & Marshall, To- ronto.
" 10	"	30358	J. W. Nettekloss, Toronto	2 " ..	20	Hunphy & Co., Toronto....
" 10	"	30360	A. Probin, 134 King St., Toron- to.	3 " ..	30	H. G. Gebbald, Claud. . .
" 13	"	30363	Frank Kernick, Alleston ...	2 lb..	35	Telford Bros., Collingwood..
" 15	"	30369	Rutherford & Marshall, Front St. Toronto.	3 Cups.	25	Not known.....

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct readings of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

H. J. DAGER, INSPELOR—Con.

.....	-12.5	23.60	Yellow. Partly crystallized.	Genuine.
.....	-12.0	21.40	Yellow. Crystallized throughout.	"
Labeled pure honey.....	-10.0	24.00	Yellow. Crystallized almost throughout.	"
Extracted from comb by Vendor.	-9.0	21.80	Yellow. Clear.....	"
Vendor bottled from bulk..	-10.5	21.40	Light yellow. Slightly crystallized.	"
Bottled by Vendor.....	-14.3	24.00	Light yellow. Crystallized throughout.	"
.....	-11.3	21.40	Light yellow. Crystallized throughout.	"
.....	-14.0	25.00	Yellow. Slightly crystallized.	" Water content high.

T. KIDD, INSPECTOR.

.....	-16.6	21.00	White. Crystallized throughout.	Genuine.
.....	-9.8	24.00	Yellow. Partly Crystallized.	"
.....	-13.8	21.80	Yellow. Clear.....	"
.....	-13.0	23.40	" ".....	"
.....	-14.4	25.00	" ".....	" Water content high.
.....	-14.0	22.80	Yellow. Crystallized throughout.	"
.....	-15.7	24.80	Yellow. Partly Crystallized.	"
.....	-13.7	22.00	Yellow. Partly Crystallized.	"
.....	-12.6	22.40	Brown. Crystallized throughout.	"
.....	-10.6	21.20	Yellow. Clear.	"
.....	-9.4	19.60	Light yellow. Partly crystallized.	"
.....	-5.4	21.40	Brown. Slightly crystallized.	"
Clover honey.....	-13.9	22.40	Yellow. Nearly all crystallized.	"
.....	+9.3	24.20	Dark Brown. Clear....	Adulterated with cane sugar.
.....	-13.5	23.00	Yellow. Slightly Crystallized.	Genuine.
.....	-9.8	22.20	Yellow. Partly Crystallized.	"
.....	-10.0	23.00	Yellow. Clear.	"
Branded Clover Honey....	+17.7	37.00	" ".....	Adulterated with cane sugar. Water content high.
.....	-16.4	24.20	Yellow. All Crystallized	Genuine.
Branded pure Honey.....	-18.3	23.60	Light yellow. Nearly all Crystallized.	"

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Sample.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF MANITOBA—

May	16	Honey	25812 Sutherland Bros., Winnipeg	3 lbs	60	Campbell Bros. & Wilson, Winnipeg.
"	15	"	25826 J. Patterson, Winnipeg	5 "	90	G. E. Saunders, Hornby, Ont.
"	15	"	25827 A. R. Christie, Winnipeg	5 "	85	
"	15	"	25828 W. H. Stone & Co., Winnipeg	5 "	75	Whellans, Kildonan, Man.
"	16	"	25829 Bragg Bros., Winnipeg	3 "	75	Foley, Lock & Larsen, Winnipeg.
"	16	"	25830 Laurie Bros., Winnipeg	5 "	75	McPherson Fruit Co., Winnipeg.
"	17	"	25831 S. Elliott & Co., Winnipeg	3 "	75	White Star Mfg. Co.
"	17	"	25832 J. R. VanNorman, Winnipeg	3 "	75	
"	17	"	25833 D. A. Richie, Winnipeg	5 "	1 00	J. J. Gunn, Gonor, Man.
"	17	"	25834 J. H. McGrath, Winnipeg	3 "	75	A. A. McDonald, Winnipeg.
"	17	"	25835 G. T. Hoyes, Winnipeg	3 "	75	Foley, Lock & Larsen, Winnipeg.
"	27	"	25839 T. A. Newman Bros., Portage la Prairie.	3 "	70	E. B. Blaine, Toronto.
"	27	"	25840 C. S. B. Burley, Portage la Prairie.	3 "	50	Not known
"	27	"	25841 J. O'Reilly, Portage la Prairie.	3 "	70	E. D. Smith, Winona, Ont.
"	27	"	25842 J. & E. Brown, Portage la Prairie.	3 "	60	Wm. Fielder, Franklin, Man.
"	22	"	25836 Martin & Johnson, Brandon	3 "	75	Wilson Com. Co., Brandon.
"	23	"	25837 A. Grant, Brandon	3 "	75	E. D. Smith, Winona, Ont.
"	23	"	25838 Star Grocery, Brandon	3 "	75	Wilson Com. Co., Brandon.
"	28	"	25844 T. R. Brough, Carberry	3 "	75	G. A. Deadman, Brussels, Ont.
"	28	"	25845 Geo. Kennedy, Carberry	3 "	75	Dundas & Flavell Bros., Lindsay, Ont.

DISTRICT OF CALGARY—

May	9	Honey	28721 Horne & Spice, Lacombe	3 bots	1 05	Pacific Fruit & Syrup Co., San Francisco, U.S.A.
"	9	"	28722 A. Urquhart & Co., Lacombe	3 "	60	Upton & Co., London, Ont.
"	9	"	28723 Campbell & Titaworth, Lacombe	3 "	75	" "
"	9	"	28724 J. G. Pratt, Lacombe	3 "	1 00	G. F. & J. Galt, Winnipeg.
"	11	"	28725 R. Bruce Inglis Co., Edmonton	3 "	90	H. L. Johnson, Chilliwack, B.C.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULTS OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct readings of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics	

R. W. EARL, INSPECTOR.

.....	+17.8	22.80	Golden brown, clear....	Contains cane sugar; label on bottle reads 'Honey and Sugar Syrup.'
.....	-12.4	22.60	Partly crystallized, yellow.	Genuine.
.....	+16.0	13.80	Yellow, clear.....	Adulterated with cane sugar.
.....	-17.0	22.40	Crystallized throughout, light yellow.	Genuine.
.....	-16.9	21.60	Crystallized throughout, white.	"
.....	-3.7	24.60	Slightly crystallized, yellow.	"
.....	-17.2	26.80	Light yellow, clear	" Water content high.
.....	-0.7	21.20	" "	"
.....	-14.3	19.60	Partly crystallized, yellow.	"
.....	-18.5	19.40	Yellow, clear.....	"
.....	-16.5	17.30	Crystallized throughout, white.	"
.....	-17.8	18.60	Light yellow, crystallized almost throughout.	"
.....	-18.8	21.40	" "	"
.....	-16.7	21.60	Slightly crystallized, dark yellow.	"
.....	-18.1	22.20	Crystallized throughout, yellow.	"
.....	+15.3	22.80	Yellow, clear.....	Adulterated with cane sugar.
.....	-16.6	21.80	Partly crystallized, dark yellow.	Genuine.
.....	+18.9	25.40	Yellow, clear.....	Adulterated with cane sugar. Water content high.
.....	-10.3	22.00	"	Genuine.
.....	-22.0	26.80	Partly crystallized, yellow.	" Water content high.

R. W. FLETCHER, INSPECTOR.

.....	-17.8	26.00	Dark yellow. Clear.	Genuine. Water content high.
.....	-12.3	23.60	Yellow. Crystallized almost throughout.	"
.....	-14.5	24.00	Yellow. Crystallized almost throughout.	"
.....	-7.5	21.40	Yellow. Partly crystallized.	"
.....	-11.2	22.40	Yellow. Crystallized almost throughout.	"

TABLE I.—RECORD OF FOOD SAMPLES, HONEY, ANALYZED BY

Date of Collection.	Nature of Sample.	No. of Samples.	Name and Address of Vendor.	Cost.		Name and Address of Manufacturer or Furnisher as given by Vendor.
				Quantity.	Cents.	
1907.						

DISTRICT OF CALGARY—

May 11	Honey.....	28726	Hudson Bay Co., Edmonton...	3 " ..	75	Hudson Bay Co., Winnipeg
" 13	"	28727	Duncan Bros. & Batters, Ed- monton.	3 tin...	60	Not known.....
" 13	"	28728	Garieky & Sesalea, Edmonton..	3 bots..	60	Pacific Coast Syrup Co., Seattle, U.S.
" 13	"	28729	Hallier & Aldridge, Edmonton.	3 " ..	75	Brown & Co., Tothenham, Ont.
" 13	"	28730	C. W. Campbell, Edmonton...	3 " ..	1 00	Pacific Coast Syrup Co., Seattle, U.S.
" 13	"	28731	Matheson & Jacobson, Ed- monton.	3 " ..	1 00	" " ..
" 13	"	28732	J. H. Morris & Co., Edmonton	3 " ..	60	G. A. Deadman, Brussels, Ont.
" 14	"	28733	D. H. L. Ghormley, Strathcona	3 " ..	60	Upton & Co., Hamilton, Ont.
" 14	"	28734	F. Cowles, Strathcona.....	3 " ..	60	Unknown.....
" 14	"	28735	Cooke & Orr, Strathcona.....	3 " ..	1 20	Pacific Coast Syrup Co., Seattle, U.S.
" 14	"	28736	A. H. Richards & Co., Strath- cona.	3 " ..	1 50	J. Tullmee & Co., Hamilton, Ont.
" 14	"	28737	A. G. Baahm, Strathcona.....	3 " ..	75	Upton & Co., Hamilton, Ont.
" 14	"	28738	C. Shugerman, Strathcona.....	3 " ..	75	John Stade, Chilliwack, B.C.
" 14	"	28739	Baxter & Co, Strathcona... ..	3 " ..	75	Upton & Co., Hamilton, Ont.
" 14	"	28740	Ross McDonald, Strathcona..	3 " ..	75	Pacific Coast Syrup Co., Seattle, U.S.

DISTRICT OF BRITISH COLUMBIA—

April 15	Honey.....	32022	C. E. Purner, Pender St., Van- couver.	2 jars...	60	Bishop & Co., Los Angeles, Cal., U.S.
" 16	"	32026	Marshall, Smith & Co., Ladner, B.C.	2 " ..	60	Pacific Coast Syrup Co., San Francisco, U.S.
" 16	"	32028	E. Hunt, Stevenson, B.C.....	2 " ..	50	T. W. Kimarire, Lulu Island, B.C.
" 18	"	32029	Frank Wright, Granville St., Vancouver.	3 " ..	75	W. Woodward, Ladner, B.C.
" 22	"	32036	A. H. Keepings, Keefer St., Vancouver.	2 bottles	60	Pacific Coast Syrup Co., San Francisco, U.S.
" 19	"	32048	Geo. Smith, Mount Pleasant, Vancouver.	3 jars...	45	San Diego Honey Co., 707 Sauroure St., San Fran- cisco, U.S.
" 19	"	32049	H. O. Lee, Mount Pleasant, Vancouver.	1 qt....	60	Garcia & Magini, San Fran- cisco, U.S.
" 20	"	32050	The Direct Supply Co., Hast- ings St., Vancouver.	3 jars...	75	John Stade, Chilliwack, B.C.
" 22	"	32051	D. Beare Co., Hastings St., Vancouver.	3 " ..	75	H. L. Johnson, Chilliwack, B.C.
" 22	"	32052	Healy & Vicars, Keefer St., Vancouver.	2 " ..	50	Pacific Syrup Co., San I o, U.S.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULT OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct reading of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

R. W. FLETCHER, INSPECTOR.—*Con.*

.....	- 1.0	26.60	Pale yellow. Clear.....	" Water content high. Adulterated with cane sugar.
.....	- 11.8	22.80	Yellow. Partly crystallized.	Genuine.
.....	- 15.4	21.00	Yellow. Clear.....	"
.....	- 12.3	22.80	Yellow. Mostly crystallized.	"
.....	- 17.4	23.40	Yellow. Crystallized almost throughout.	"
.....	- 16.3	26.40	Dark yellow. Clear.	" Water content high.
.....	- 13.2	21.80	Yellow. Clear.	"
.....	- 13.9	23.20	Dark yellow. Crystallized throughout.	"
.....	- 14.0	21.60	Pale yellow.	"
.....	- 16.5	23.20	Yellow. Clear.	"
.....	- 12.0	19.80	Pale yellow. Crystallized throughout.	"
.....	- 14.0	25.20	Yellow. Crystallized almost throughout.	" Water content high.
.....	- 13.0	25.00	Yellow. Partly crystallized.	" " "
.....	- 17.40	24.80	Brown. Partly crystallized.	"
.....	- 17.0	27.20	Yellow. Mostly clear but contains a little comb.	" Water content high.

E. B. PARKINSON, INSPECTOR.

Guaranteed pure by the manufacturer.	- 14.9	21.20	Yellow, clear.....	Genuine.
"Wild Rose," Finest Californian Honey, pure.	18.4	24.20	" "	"
.....	- 12.9	22.80	Yellow, crystallized, almost throughout.	"
White Clover honey.....	- 15.0	20.40	Pale yellow, crystallized throughout.	"
"Wild Rose" Finest Californian Honey, pure.	- 18.5	28.20	Yellow, clear.....	" Water content high.
"Wild Rose" Honey.....	- 11.5	23.80	Dark yellow, crystallized almost throughout.	"
No brand; no label.....	- 16.4	21.80	Dark yellow, clear.....	"
Pure honey.	- 16.0	24.00	Yellow, partially crystallized.	"
"	- 13.4	22.00	Dark yellow, partly crystallized.	"
"White Rose" Finest Californian Honey.	- 17.4	24.00	Yellow, clear.....	"

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				Quantity.	Cents.	
1907.						

DISTRICT OF BRITISH COLUMBIA—

April 22	Honey...	32053	Woodward's Dept. Store, Hastings St., Vancouver.	3	"	20	Garcia & Magini, San Francisco, U.S.
" 22	"	32054	J. Deal, Cordova St., Vancouver.	2	"	60	W. H. McKinly, Vancouver, B.C.
" 22	"	32055	" " "	3	"	45	Vendor.....
" 23	"	32056	LaBelle & Co., Westminster St., Vancouver.	3	"	25	Garcia & Magini, San Francisco, U.S.
" 23	"	32057	B. B. Brown, Davie St., Vancouver.	3	"	75	John Stadel, Chilliwack, B.C.
" 23	"	32058	A. J. Hawkes, Denman St., Vancouver.	2	"	60	Bishop & Co., Los Angeles, U.S.
" 24	"	32059	West End Grocery, New Westminster, B.C.	2	"	50	J. Reagh, Ladnor, B.C.....
" 24	"	32060	Adams & Deans, New Westminster, B.C.	2	"	50	R. W. Keegan, Steveston, B.C.
" 25	"	32061	Bruder & Gruchy, Granville St., Vancouver.	1	"	35	Garcia & Magini, San Francisco, U.S.
" 29	"	32062	J. McArthur, Westminster St., Vancouver.	2	"	50	John Stadel, Chilliwack, B.C.

INLAND REVENUE DEPARTMENT—PUBLIC ANALYST LABORATORY.

Inspector's Report.	RESULT OF ANALYSIS.			Opinion of the Chief Analyst.
	Direct reading of Saccharimeter.	Water loss on drying at 70° C.	Physical Characteristics.	

E. B. PARINSON, INSPECTOR.—*Con.*

No brand or label.	- 19.0	23.20	Yellow, partially crystallized.	Genuine.
Extra fine quality.	+ 72.0	24.20	" ..	Adulterated with glucose.
Made from comb honey by the vendor.	- 14.4	22.40	Brown, clear.	Genuine.
No brand or label.	- 21.0	23.60	Dark yellow, partially crystallized.	"
.....	- 13.8	18.20	Dark yellow, clear.	"
Guaranteed pure by the manufacturer.	- 18.0	19.80	Yellow, partially crystallized.	"
White Clover Brand. Warranted pure.	- 6.5	20.80	Pale yellow, clear.	"
Pure honey.	- 12.0	20.40	Pale yellow, partially crystallized.	"
No brand and label.	- 16.2	19.80	Yellow, mostly crystallized.	"
Pure honey.	- 18.4	22.00	Yellow, crystallized throughout.	"